

WHAT IS CLAIMED IS:

1. A hard disk drive (HDD), comprising:
at least one disk including plural portions;
at least one write element juxtaposed with the disk for writing data in at least some portions; and
a controller establishing at least one of: a write current, and a kick amplitude, associated with the write element for each head for each portion to establish an overwrite signal-to-noise ratio within a desired range.
2. The HDD of Claim 1, wherein the controller establishes both a write current and a kick amplitude for each write element for each portion.
3. The HDD of Claim 1, wherein the desired range is approximately -22db to -24 db.
4. The HDD of Claim 1, wherein the controller accesses a table correlating write current and kick amplitude to head/portion combinations.
5. The HDD of Claim 4, wherein the controller dynamically varies looked-up write currents and kick amplitudes.

6. The HDD of Claim 5, wherein the write current and kick amplitudes are varied as a function of sensed temperature.

7. A chip for a hard disk drive (HDD) having at least one disk defining plural portions and at least one write element for writing data to the disk, comprising:

- means for accessing a table correlating at least one write parameter to head/portion combinations; and
- means for establishing, for at least one head/portion combination, at least one of: a write current, and a kick amplitude.

8. The chip of Claim 7, wherein the table correlates two write parameters to each head/portion combination.

9. The chip of Claim 7, wherein kick amplitude and write current are established to establish an overwrite signal-to-noise ratio within a desired range.

10. The chip of Claim 7, comprising means for dynamically varying looked-up write currents and kick amplitudes.

11. The chip of Claim 7, comprising means for dynamically varying looked-up write

currents and kick amplitudes as a function of sensed temperature.

12. A chip for a HDD including at least one head and at least one disk juxtaposed with the head and defining plural portions, comprising:

means for storing at least one value for each head for each portion which can be operably associated with the head, the at least one value representing at least one of:

baseline write current, and kick amplitude; and

means for using the value to generate a write current useful by the head.

13. The chip of Claim 12, wherein the HDD includes at least one temperature sensor, and the controller chip further comprises:

means for varying the value based on a signal from the temperature sensor to establish a temperature-corrected value; and

means for applying a signal characterized by the temperature-corrected value to the head.

14. The chip of Claim 13, wherein the means for storing stores, for each head for each portion which can be operably associated with the head, a kick amplitude value and a baseline write current value.

15. The chip of Claim 14, wherein the means for varying varies both values.

16. A logic element for a hard disk drive (HDD) having at least one disk defining plural portions and at least one write element for writing data to the disk, the logic element holding logic embodying method acts comprising:

accessing a table correlating write currents and kick amplitudes to head/portion combinations; and

establishing, for at least one head/portion combination, at least one of: a write current, and a kick amplitude.

17. The logic element of Claim 16, wherein the logic establishes both of a write current and a kick amplitude for each head/portion combination.

18. The logic element of Claim 17, wherein the kick amplitude and write current are established to establish an overwrite signal-to-noise ratio within a desired range.

19. The logic element of Claim 17, wherein the logic comprises dynamically varying looked-up write currents and kick amplitudes.

20. The logic element of Claim 17, wherein the logic comprises means for dynamically varying looked-up write currents and kick amplitudes as a function of sensed temperature.